IN THE CLAIMS

Please amend the claims as follows:

- (Currently Amended) Colloida'l system of ceramic 5 nanoparticles in a dispersion medium, comprising nanoparticles of zirconium dioxide, aluminum oxide, iron oxide or barium titanate which are enriched in volume percentages of 1% to 60% the dispersion medium, wherein the nanoparticles are dispersed in the dispersion medium in a particle size range of 10 1nm to 100nm, characterized in that and the nanoparticles are dispersed substantially to primary particle size in the dispersion medium, 90% or more than 90% of the nanoparticles distributed in the dispersion medium have a coinciding particle size, wherein the particle size variation decreases 15 50%, related to nanoparticles of to lnm, nanoparticles of 100nm, and the atoms and/or ions located in the surface of the nanoparticles are saturated in terms of the concentration of the dependence on valence in using a surface nanoparticles in the dispersion medium 20 of energetic balance the such that an modificator nanoparticles in the dispersion medium is obtained.
- 2. (Currently Amended) Colloidal system according to claim 1, characterized in that wherein an inorganic acid, such as HCI and/or a betadiketone and/or isocyanate, and/or an organic acid such as $C_2H_4O_2$ and/or acid chlorides and/or acid ester and/or silanes and/or a polyoxycarboxylic acid are added to the dispersion medium as surface modificator.

- 3. (Currently Amended) Colloidal system according to claim 1, characterized in that wherein the dispersion medium is H_2O , alcohol, tetrahydrofuran and/or a halogenated hydrocarbon and/or a diluted acid and/or a diluted lye and/or a hydrocarbon and/or an aromatic hydrocarbon.
- 4. (Currently Amended) Use of the colloidal system according to claim 1 as <u>an</u> improving component for ceramic components, plastic materials etc, <u>and</u> as <u>a</u> filler for thermal insulation or sound insulation etc.
- 5. (Currently Amended) Use of the colloidal system according to claim 1 as <u>a gas</u> sensor or as a component of a 15 gas sensor.
 - 6. (Currently Amended) Use of the colloidal system according to claim 1 as \underline{a} ceramic hollow fiber or as \underline{a} component of a ceramic hollow fiber.

20

7. (Currently Amended) Use of the colloidal system according to claim 1 as \underline{a} nano-filtration diaphragm or as \underline{a} component of a nano-filtration diaphragm.